Name of Work : Upgradation of peripheral roads in Kalamboli Warehousing Complex at Kalamboli.

SPECIFICATION REFERENCE FOR SCHEDULE "A" (PART – I : CONCRETE ROAD/FOOTPATH)

Item. No.	Description	Reference to Standard Specifications of PWD., MORT&H Specification No. / Pg. No.
1	**Excavation for roadway** in all type of soil, soft murum, hard murum, boulder, WBM, Asphalted Road, Concrete Road, etc.	Rd. 5,6,7 & 8 Pg. No. 184,185,186
2	**Compacting the sub grade,** excavated surface, soling gravel, sand, soft murum, oversize metal layers with vibratory power roller including all necessary material labour etc.	Rd. 32 Pg. No. 206
3	Providing **earthwork in embankment** with approved materials obtained from contractor's own source.	Rd. 16 Pg. No. 195
4	Providing & laying **Granular Sub-Base (GSB)** as per clause 401 of M.O.R.T.&H (2001)	MORT&H – 2001 Cl. No. 401
5	Providing and laying **Dry Lean Concrete** base including providing coarse and fine aggregate to the specified gradation using minimum cement content 150 Kg/cum of concrete with OPC 43	MORT&H – 2001 Cl. No. 601
6	Providing and laying **Pavement Quality Concrete of M-40 grade RMC** cast in situ of trap metal.	MORT&H – 2001 Cl. No. 602
7	Providing & Placing, fixing in all RCC item of foundation, Substructures, Superstructures, **TMT Steel bar reinforcement.**	Bd. F-17, Pg. No. 306

Item. No.	Description	Reference to Standard Specifications of PWD., MORT&H Specification No. / Pg. No.
8	Providing & fixing parabolic shape **RCC precast-factory made M25 Grade kerb stone.**	As per Schedule 'A', Particular Specifications & as directed by Engineer.
9	Providing **PCC precast factory made kerb stone** of 500x400x150 mm size in M-25.	As per Schedule 'A', Particular Specifications & as directed by Engineer.
10	Providing and Lowering, laying & joining **RCC pipes of S/S manufactured as per IS 458 (latest version) having ISI of 150 mm dia.**	IS – 458 / 1988
11	Providing and Lowering, laying & joining **RCC pipes of S/S manufactured as per IS 458 (latest version) having ISI of 300 mm dia NP3 class pipes.**	IS – 458 / 1988
12	**Providing and Constructing B.B. masonry valve chamber** As Above of 1.2 x 1.2 M internal size and depth upto 1.2 M with precast R.C.C. slab cover.	As per Schedule 'A', Particular Specifications & as directed by Engineer.
13	Providing & Laying **hard core** with 80 mm oversize trap metal in layers of 150 mm thickness.	Bd. A-12, Pg. No. 264
14	Providing and laying in situ **PCC Cement Concrete M20 (RMC) grade.**	As per Schedule 'A', Particular Specifications & as directed by Engineer.
15	**Disposal of surplus excavated materials** Lead upto 1.5 Km.	As per Schedule 'A', Particular Specifications & as directed by Engineer.

Item. No.	Description	Reference to Standard Specifications of PWD., MORT&H Specification No. / Pg. No.
16	Providing & applying **hot applied thermoplastic pavement white coloured marking paint.**	MORT&H – 2001 Cl. No. 803
17a	Valve chamber with **precast steel fibre reinforced concrete frame and covers** (S.F.R.C frame and covers) E. As above of 1.2 x. 1.2 M internal size and depth upto 1.2 M with S.F.R.C. frame and cover of size 540 mm dia. fixed in RCC slab.	As per Schedule 'A', Particular Specifications & as directed by Engineer.
18	Providing and laying in situ **PCC Cement Concrete M20 (RMC)** grade using design mix.	As per Schedule 'A', Particular Specifications & as directed by Engineer.
19	**Repair and maintenance of street light** by repairs/ replacement of street lights poles, fixtures, lamps, choke, ignators & any other fitting accessories.	As per Schedule 'A', Particular Specifications & as directed by Engineer.

Signature of Tenderer
Date.:

Chief Engineer & General manager(Tech)
Date.:

Name of Work : Upgradation of peripheral roads in Kalamboli Warehousing Complex at Kalamboli.

SPECIFICATION REFERENCE FOR SCHEDULE "A" (PART – II : STORM WATER DRAIN)

Item No.	Description	Reference to Standard Specifications of PWD., MORT&H Specification No. / Pg. No.
1	**Excavation for foundation** to any depth in all types of earth, soils of all types such as sand, gravel, slush, soft murum, hard murum, existing UCR Masonry, PCC, RCC, RCC Pipes etc.	Bd. A-1 to 3, Pg. No. 259
2	**Excavation for foundation** in ash muddy / marshy / Slushy/soil.	Bd. A-4 to 5, Pg. No. 259
3	**Excavation for foundation in hard rock** upto any depth with all lifts.	Bd. A-6 to 7, Pg. No. 260
4	**Excavation for foundation in hard rock** upto any depth with all lifts.	Bd. A-6 to 7, Pg. No. 260
5	Providing and laying **dry trap metal soling** 15 cm. to 20 cm. thick.	Bd. A-12, Pg. No. 264
6	Providing trap rubble filling.	Bd. A-12, Pg. No. 264
7	Providing and laying in situ Ready Mix Cement Concrete **M-20** grade.	As per Schedule 'A', Particular Specifications & as directed by Engineer.
8	Providing and laying in situ **Ready Mix Cement. Concrete M/30 grade for raft** using design mix with minimum cement content.	As per Schedule 'A', Particular Specifications & as directed by Engineer.

Item No.	Description	Reference to Standard Specifications of PWD., MORT&H Specification No. / Pg. No.
9	Providing and casting in situ **Ready Mix Cement Concrete M/30 grade for vertical wall.**	As per Schedule 'A', Particular Specifications & as directed by Engineer.
10	Providing and casting in situ **Ready Mix Cement Concrete M/30 grade for slab.**	As per Schedule 'A', Particular Specifications & as directed by Engineer.
11	Providing & Fixing **Precast RCC beam** of size 150 x150 mm over SW Drain in M-25 grade of cement concrete.	As per Schedule 'A', Particular Specifications & as directed by Engineer.
12	Providing & Fixing **Precast RCC slab** of 100mm thickness with RCC Frame of size 900 x 900 mm in M-30 grade of cement concrete.	As per Schedule 'A', Particular Specifications & as directed by Engineer.
13	Providing & Placing, fixing in all RCC item of foundation, Substructures, Superstructures, **TMT Steel bar reinforcement** of various diameters.	Bd. F-17, Pg. No. 306
14	Providing and fixing 100 mm dia **AC/PVC pipes for weep holes.**	As per Schedule 'A', Particular Specifications & as directed by Engineer.
15	**Disposal of surplus excavated material upto 1.5 km** lead.	As per Schedule 'A', Particular Specifications & as directed by Engineer.
	FOOTPATH DEVELOPMENT	
1	Providing and **Hard core with 80mm over size trap metal** in layers of 150 thickness.	As per Schedule 'A', Particular Specifications & as directed by Engineer.

Item No.	Description	Reference to Standard Specifications of PWD., MORT&H Specification No. / Pg. No.
2	Providing and laying in situ Ready Mix Cement Concrete M-20 grade.	As per Schedule 'A', Particular Specifications & as directed by Engineer.

Signature of Tenderer
Date.:

Chief Engineer & General manager(Tech)
Date.:

Name of Work : Upgradation of peripheral roads in Kalamboli Warehousing Complex at Kalamboli.

SPECIFICATION REFERENCE FOR SCHEDULE "A"
(PART – III : FLEXIBLE PAVEMENT)

Item No.	Description	Reference to Standard Specifications of PWD., MORT&H Specification No. / Pg. No.
1	**Compacting** the subgrade, soling, gravel, sand, soft murum, oversize metal layer.	Rd. 32, Pg. No. 206
2	Providing and applying **low viscosity liquid bituminous material.**	MORT&H – 2001 Cl. No. 502
3	Providing and **applying low viscosity liquid bituminous material.**	MORT&H – 2001 Cl. No. 503
4	Providing and constructing **Bituminous Bound Macadam (BBM).**	As per Schedule 'A', Particular Specifications & as directed by Engineer.
5	Providing and applying **bituminous tack coat.**	MORT&H – 2001 Cl. No. 503
6	Providing and laying **hot mix hot laid Asphaltic Concrete / bituminous Concrete (AC/BC).**	MORT&H – 2001 Cl. No. 509

Signature of Tenderer
Date.:

Chief Engineer & General manager(Tech)
Date.: